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Г	APPLICATION NO.	FILING	DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	\neg	
09/771,812		01/29/2001		Wolfgang F. Ruettinger	4739	1300		
	75	590	10/27/2003	EXAMINER				
	Chief Patent C			LANGEL, WAYNE A		TL		
	Engelhard Corp 101 Wood Aver			ART UNIT	PAPER NUMBER	\neg		
	P.O. Box 770			1754 DATE MAILED: 10/27/2003				
	Iselin, NJ 088	30-0770						

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s	ettinger et
Office Action Summary	Examiner	nge/	Group Art Upit
- The MAILING DATE of this communication app	- · · · · · · · · · · · · · · · · · · ·		correspondence address—
P riod for Reply	-	_	
A SHORTENED STATUTORY PERIOD FOR REPLY IS SE OF THIS COMMUNICATION.	T TO EXPIRE	MONTH	(S) FROM THE MAILING DATE
 Extensions of time may be available under the provisions of 37 of from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days. If NO period for reply is specified above, such period shall, by defailure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the term adjustment. See 37 CFR 1.704(b). 	s, a reply within the statutor efault, expire SIX (6) MONT y statute, cause the applica	y minimum of thirty HS from the mailing tion to become AB	(30) days will be considered timely. date of this communication. ANDONED (35 U.S.C. § 133).
Hesponsive to communication(s) filed on/	22-03		·
This action is FINAL.			
 Since this application is in condition for allowance ex- accordance with the practice under Ex parte Quayle, 			to the merits is closed in
Disposition of Claims **Claim(s) 42, 43 and		_ is/are pending in the application is/are withdrawn from consideration.	
Of the above claim(s)	and 48	is/are	withdrawn from consideration.
Of the above claim(s) 43, 45, 47	and 48	is/are	withdrawn from consideration. allowed.
Of the above claim(s) Claim(s) Claim(s) Claim(s) 43, 45, 47 A2 and 44	and 48	is/are is/are is/are	withdrawn from consideration. allowed. rejected.
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U.S. Patent and Trademark Office PTO-326 (Rev. 11/00)

Part of Paper No.

Art Unit 1754

The following is a quotation of 35 U.S.C. § 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 42 and 46 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Korotkikh et al. in view of Mesters et al. (of record). Korotkikh et al. disclose a process for carrying out the water gas-shift reaction, wherein the catalyst for the reaction comprises aluminum oxide having a surface area of at least 10 m^2/g , a catalytic agent, and cerium oxide as a promoter. (See column 3, lines 12-21.) The difference between the process disclosed by Korotkikh et al., and that recited in claims 42 and 46, is that Korotkikh et al. do not disclose that the catalytic agent should be copper and be present between 4 and 14% by weight. Mesters et al. disclose that metallic copper will catalyze the water gas-shift reaction. (See the Abstract and column 2, lines 34-68.) It would be prima facie obvious from Mesters et al. to employ copper as the catalytic agent for the catalyst of Korotkikh et al. since Korotkikh et al. teach at column 7, lines 48-51 that the catalytic agent can be any

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suitable material that catalyzes the water gas-shift reaction, and Mesters et al. clearly disclose that copper would be such a material that would catalyze the water gas-shift reaction. Moreover, the copper catalyst of Mesters et al. is deposited on a refractory oxidic carrier having a high specific surface area, as is the catalyst material of Korotkikh et al., so that it would be expected from Mesters et al. that copper would function as a catalytic agent for the catalyst of Korotkikh et al. It would be further obvious to employ the copper in an amount between 4 and 14% by weight in the catalyst of Korotkikh et al., since Mesters et al. teach that the copper should be present in an amount of at least 1% by weight (see the Abstract), and it would be within the skill of one of ordinary skill in the art to determine a suitable or optimum amount of the copper to be employed. Regarding claim 46, it is noted that the conditions recited therein are disclosed at column 18, lines 34-54 of Korotkikh et al.

Claims 43, 45, 47 and 48 are allowed.

Sugier '577 is made of record for disclosing the water gasshift reaction using a catalyst comprising an active phase consisting of a mixed oxide of copper and chromium.

Snowden and Davies et al. are made of record for disclosing the water gas-shift reaction using catalysts comprising oxides of copper and zinc.

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Applicant's amendment necessitated the new grounds of rejection. Accordingly, THIS ACTION IS MADE FINAL. See M.P.E.P. § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 C.F.R. § 1.136(a).

A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 C.F.R. § 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wayne A. Langel whose telephone number is (703) 308-0248. The examiner can normally be reached on Monday through Friday from 8 A.M. to 3:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman, can

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be reached on (703) 308-3837. The fax phone number for this Group is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-2351.

WAL:cdc

October 21, 2003

Mayne a. Langel
WAYNE A. LANGEL
PRIMARY EXAMINER